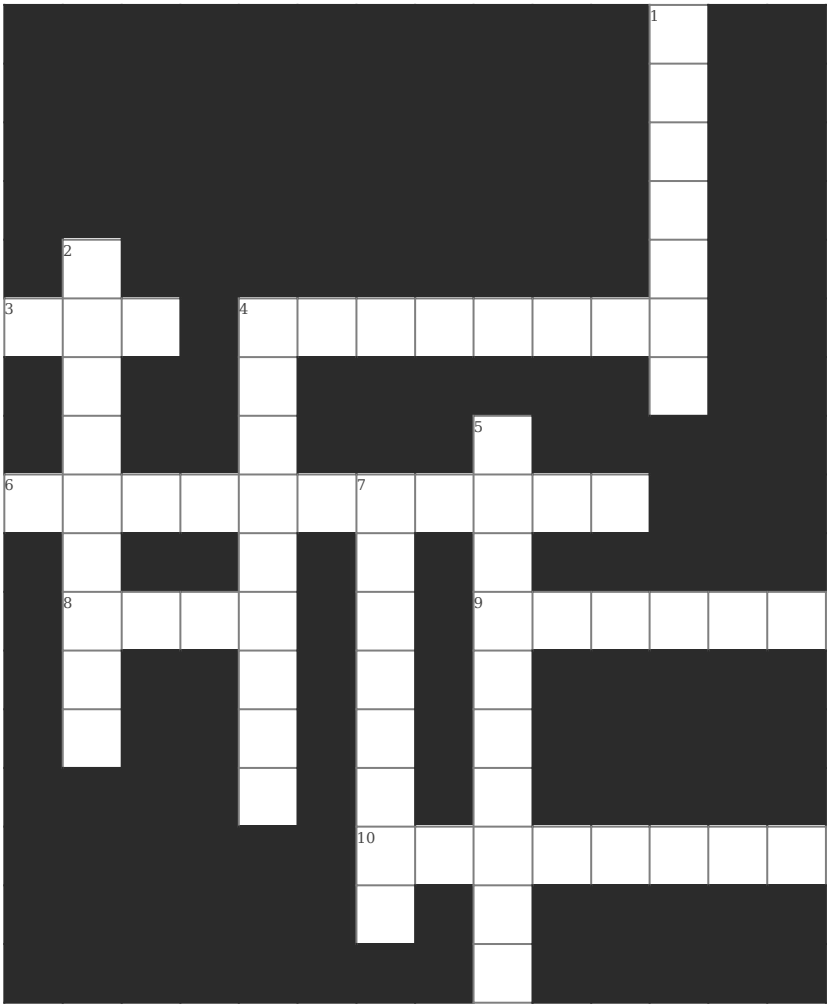
## Chapter 5 · Arithmetic Progressions

# Part 7b · The Crossword

*Same rules as an ordinary crossword — but every word is maths vocabulary from this chapter.*



## ACROSS

**3.** The result of adding up the first n terms, written Sn

**4.** Describes an AP with no last term

**6.** The word that follows "Arithmetic" in the name of this chapter

**8.** A single number in a list such as the AP

**9.** Describes an AP that has a last term

**10.** What the common difference must stay, between every pair of consecutive terms

## DOWN

**1.** The type of number n must be in the formula for the nth term

**2.** The type of equation in n that can arise when solving for n given Sn

**4.** Another word for a fixed yearly rise, as in a salary problem

**5.** What "common" describes in the phrase "common _____"

**7.** Another general word for an ordered list of numbers

*One idea — add the same fixed number every time — builds an entire toolkit: a formula for any term, and a formula for any sum. Once you can find $a$ and $d$ from almost anything you are given, the rest is just careful substitution. □*